Middle Unakwik Inlet, PWS-NW-22

Center of map at 61° 00.90' N Lat., 147° 33.09' W Lon.

Map & Photo Legend

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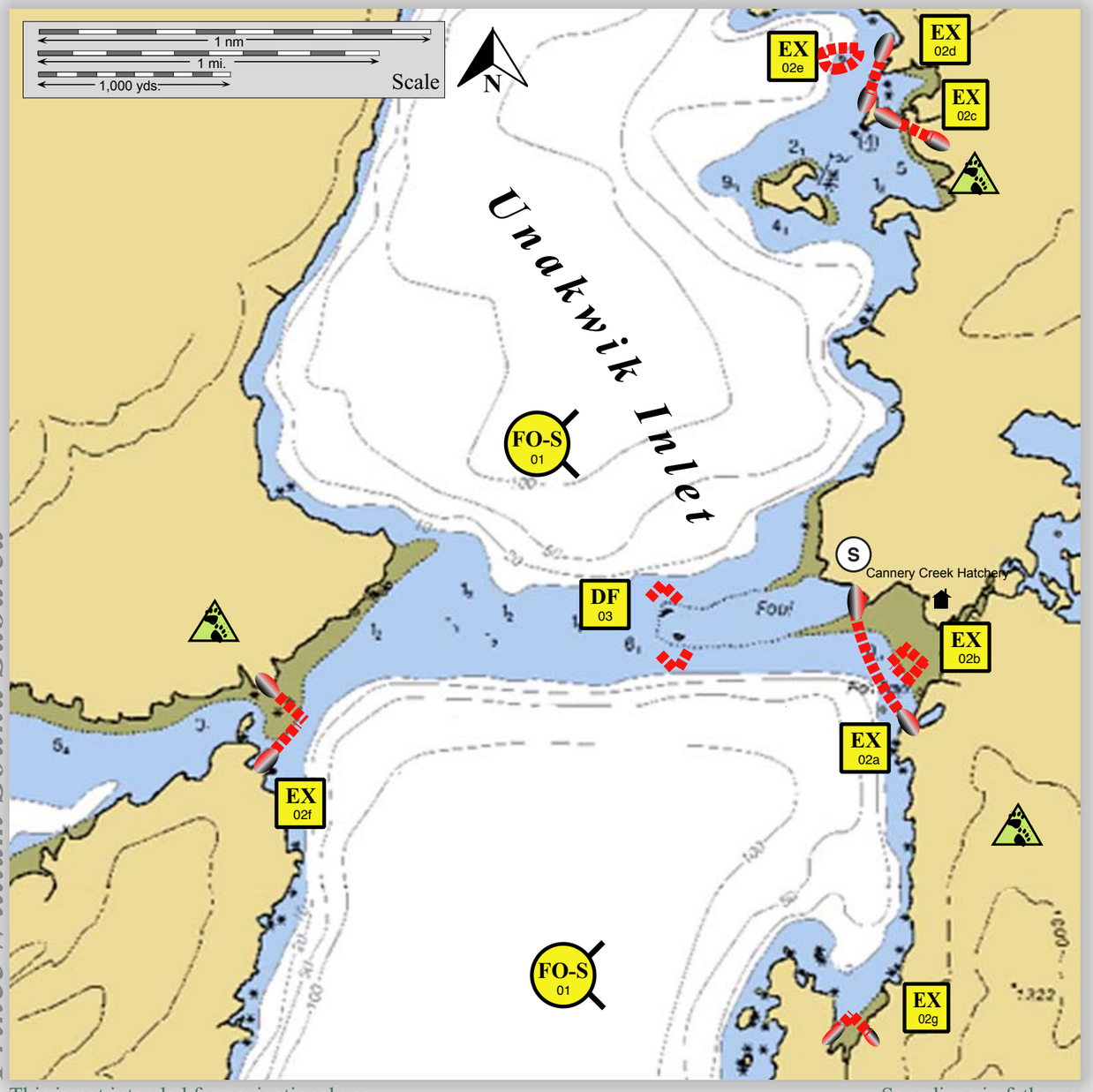
- FO-S — Free-oil Containment and Recovery, Shallow Water
- EX — Exclusion Booming
- DF — Deflection Booming
- Protected-water Boom
- Tidal-seal Boom
- S — Staging Area
- Cannery Creek Hatchery
- Bears in Area, Guards Recommended

Geographic Response Strategies for Prince William Sound Subarea



This is not intended for navigational use.

Soundings in fathoms

October 14, 2009

DRAFT This tactic map is a working draft being used to develop a Geographic Response Strategy at this location. The tactics represented here have not been approved by the Subarea Committee and should not be considered final. If you have questions or comments please contact us by email at contact@nukaresearch.com.

NUKA Research & Planning Group, LLC.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
PWS NW-22-01 FO-S	**Middle Unakwik Inlet** Nearshore waters in the general area of: Lat. 61º00.90'N Lon. 147º33.09'W	**Free-oil Recovery** Maximize free-oil recovery in the offshore & nearshore environment of Middle Unakwik Inlet depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of Middle Unakwik Inlet. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Valdez/Whittier	Via marine waters Chart 16712-1	Same as NW-22-02	Vessel master should have local knowledge. Use extreme caution, shoal waters with numerous reefs and rocks.

PWS
NW-22-02
EX
	Middle Unakwik Inlet
	Cannery Creek Hatchery Plan
	a. Lat. 61º00.83'N Lon. 147º31.66'W
	b. Lat. 61º00.93'N Lon. 147º31.49'W
	c. Lat. 61º02.65'N Lon. 147º31.47'W
	d. Lat. 61º02.78'N Lon. 147º31.63'W
	e. Lat. 61º02.87'N Lon. 147º31.89'W
	f. Lat. 61º00.57'N Lon. 147º35.93'W
	g. Lat. 60º59.56'N Lon. 147º31.80'W
		Exclusion
		Exclude oil from impacting the Cannery Creek Hatchery operations and the other identified areas in Middle Unakwik Inlet.
			Deploy anchors and boom with skiffs (class 6) at high tide.
			
			Arrays (a)&(b) are adapted from the Cannery Creek Hatchery Protection Plan. For (a) use 1000 ft. of tidal-seal boom and 6000 ft. of protected-water boom placed and anchored across the indicated intertidal areas and hatchery operations.
			
			For array (b) place 1200 ft. of protected-water boom around the holding pens.
			
			For (c)&(d) use the small island as an anchor point and complete the exclusion of the intertidal area and stream using 120 ft. of tidal-seal boom on each shore and protected-water boom.
			
			For (e) use encircle the small island with boom.
			
			For(f)&(g)place 120 ft. of tidal-seal boom on each shore and complete the array in a chevron pattern with protected-water boom.
			
			Tend throughout the tide.
			Boom Lengths:
			a. 6000 ft.
			b. 1200 ft.
			c. 500 ft.
			d. 700 ft.
			e. 600 ft.
			f. 3000 ft.
			g. 1000 ft.
				Deployment
				Equipment
				13000 ft. protected-water boom
				1960 ft. of tidal-seal boom
				30 ea. anchor systems
				20 ea anchor stakes
				Vessels
				1 ea. class 3
				3 ea. class 6
				Personnel/Shift
				9 ea. vessel crew/general techs
				Tending
				Vessels
				1 ea. class 3
				2 ea. class 6
				Personnel/Shift
				7 ea. vessel crew/general techs
					Cannery Creek Hatchery	Via marine waters
						
						Chart 16712-1
							Fish- intertidal spawning-salmon (May-Sept.)
							
							Birds-waterfowl concentration, shorebird concentration
							
							Marine mammals- seals, otters
							
							Habitat- marsh, sheltered rocky shoreline
							
							Human use-salmon hatchery operations, commercial fishing, sport fishing, high recreational use.
								Vessel master should have local knowledge.
								
								Cannery Creek Hatchery has response resources for the Hatchery Protection Plan.
								
								Title 16 Fish Habitat Permit required from ADF&G.
								
								Site surveyed: 6/17/09 PWS GRS Tactics Committee.
								
								Bears are present during salmon runs. A bear guard is required.
								
								Tested: not yet

PWS NW-22-03 DF	**Middle Unakwik Inlet** Lat. 61º00.91'N Lon. 147º33.13'W	**Deflection** Deflect oil coming from main channel away from the island and back into the channel for free-oil recovery.	Deploy 2x 600 ft. boom and anchor system with skiffs (class 6). Position protected-water boom for each array in the indicated places in a chevron pattern to deflect oil back out in the channel. Tend throughout the tide.	**Deployment** **Equipment** 1400 ft. protected-water boom 7 ea. anchor systems 12 ea. anchor stakes **Vessels/Personnel/Shift** Same as NW-22-02 **Tending** **Vessels/Personnel/Shift** Same as NW-22-02	Cannery Creek Hatchery	Via marine waters Chart 16712-1	Same as NW-22-02	Vessel master should have local knowledge. Tested: not yet